

**ABSTRACT**

Disclosed is a flame retardant coating composition comprising, based on the whole wt. of the coating composition, 10-50 wt. % of a water-soluble resin, an acryl based resin or a urethane based resin, 10-30 wt. % of a flame retarding agent, 8-20 wt. % of a flame retarding aid, 30-45 wt. % of a diluting agent and 0.1-0.5 wt. % of an additive. Due to the nonflammable materials contained in the coated layer, combustion of a coated material is retarded in case of a fire. As well, generation of harmful gases is minimized, whereby a period of time for initially suppressing a fire is assured, thus increasing safety.